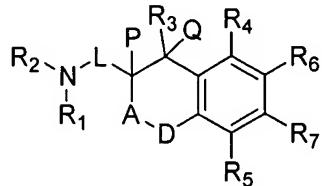


CLAIM AMENDMENTS

Claim 1. (Currently Amended) A compound of formula (I)



or a pharmaceutically acceptable salt, ester, or amide, or prodrug thereof, wherein

A is a covalent bond;

D is O;

L is selected from the group consisting of lower alkylene, fluoroalkylene, and hydroxyalkylene;

P and Q taken together form a covalent bond or are both hydrogen;

R₁ and R₂ are each independently selected from the group consisting of alkyl, aryl, arylalkyl, cycloalkyl, cycloalkylalkyl, heterocycle, heterocyclealkyl, hydroxyalkyl, alkenyl, and alkynyl; or

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle;

R₃ is selected from the group consisting of hydrogen, alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, aryl, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, heterocycle, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl, and (NR_AR_B)sulfonyl;

R₄, R₅, R₆ and R₇ are each independently selected from the group consisting of hydrogen, alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, aryl, carboxy, carboxyalkyl, cyano, cyanoalkyl, cycloalkyl, formyl, halogen, haloalkoxy, haloalkyl, heterocycle, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl, (NR_AR_B)sulfonyl, -L₂R₂₀, and -R₂₀L₃R₂₂;

L₂ is selected from the group consisting of alkylene, alkenylene, O, S, S(O), S(O)₂, C(=O), C=(NOR₂₁), and N(R_A);

L₃ is selected from the group consisting of a covalent bond, alkylene, alkenylene, O, S, C(=O), N(=OR₂₁), and N(R_A);

R₂₀ is selected from the group consisting of aryl, heterocycle, and cycloalkyl;

R₂₁ is selected from the group consisting of hydrogen and alkyl;

R₂₂ is selected from the group consisting of aryl, heterocycle, and cycloalkyl;

R_A and R_B are each independently selected from the group consisting of hydrogen, alkyl, alkylcarbonyl and formyl;

provided that at least one of R₄, R₅, R₆, or R₇ is aryl, cycloalkyl, -L₂R₂₀ or -R₂₀L₃R₂₂.

Claim 2. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is L₂R₂₀;

L₂ is C(=O); and

R₂₀ is aryl.

Claim 3. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imida \ddot{z} ol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholinyl, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is L₂R₂₀;

L₂ is C(=O); and

R₂₀ is aryl.

Claim 4. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle (2R)-2-methyl-1-pyrrolidinyl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is L₂R₂₀;

L₂ is C(=O); and

R₂₀ is phenyl substituted with 0, 1, 2 or 3 substitutents selected from the group consisting of hydrogen, alkoxy, alkyl, alkoxycarbonyl, alkylcarbonyl, alkylthio, carboxy, cyano, formyl, haloalkoxy, haloalkyl, halogen, hydroxyalkyl, oximyl, (NR_AR_B)carbonyl, and-NR_AR_B.

Claim 5. (Original) A compound according to claim 4 selected from the group consisting of

(4-fluorophenyl)(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)methanone;

(3-fluorophenyl)(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)methanone;

(2-fluorophenyl)(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)methanone;

(3-chlorophenyl)(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)methanone;

(4-chlorophenyl)(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)methanone;

(4-methoxyphenyl)(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)methanone;

(4-fluoro-3-methylphenyl)(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)methanone;

(4-chloro-3-methylphenyl)(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)methanone;

(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)[4-(methylthio)phenyl]methanone;

[4-(dimethylamino)phenyl](2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)methanone;

(4-methylphenyl)(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)methanone;

(3,5-difluorophenyl)(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)methanone;

(2-methoxyphenyl)(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)methanone;

(3-methoxyphenyl)(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)methanone; and

(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)(phenyl)methanone.

Claim 6. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is L₂R₂₀;

L₂ is C(=O); and

R₂₀ is cycloalkyl.

Claim 7. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholinyl, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is L₂R₂₀;

L₂ is C(=O); and

R₂₀ is cycloalkyl.

Claim 8. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle (2R)-2-methyl-1-pyrrolidinyl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is L₂R₂₀;

L₂ is C(=O); and

R₂₀ is cycloalkyl.

Claim 9. (Original) A compound according to claim 8 that is cyclopropyl(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)methanone.

Claim 10. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is L₂R₂₀;

L₂ is selected from the group consisting of alkylene and alkenylene; and

R₂₀ is aryl.

Claim 11. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-

pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholinyl, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is L₂R₂₀;

L₂ is selected from the group consisting of alkylene and alkenylene; and

R₂₀ is aryl.

Claim 12. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle (2R)-2-methyl-1-pyrrolidinyl;

R₃, R₄, R₅ and R₇ are hydrogen; and

R₆ is L₂R₂₀;

L₂ is selected from the group consisting of alkylene and alkenylene; and

R₂₀ is phenyl substituted with 0, 1, 2, or 3 substituents selected from the group consisting of hydrogen, alkoxy, alkyl, alkoxycarbonyl, alkylcarbonyl, alkylthio, carboxy, cyano, formyl, haloalkoxy, haloalkyl, halogen, hydroxyalkyl, oximyl, (NR_AR_B)carbonyl, and -NR_AR_B.

Claim 13. (Original) A compound according to claim 12 selected from the group consisting of

(2R)-1-(2-{5-[2-(4-fluorophenyl)vinyl]-1-benzofuran-2-yl}ethyl)-2-methylpyrrolidine; and

(2R)-1-[2-(5-benzyl-1-benzofuran-2-yl)ethyl]-2-methylpyrrolidine.

Claim 14. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl,

pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl;

R₃, R₄, R₅ and R₇ are hydrogen; and

R₆ is alkylcarbonyl.

Claim 15. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholinyl, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl;

R₃, R₄, R₅ and R₇ are hydrogen; and

R₆ is alkylcarbonyl.

Claim 16. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle (2R)-2-methyl-1-pyrrolidinyl;

R₃, R₄, R₅ and R₇ are hydrogen; and

R₆ is alkylcarbonyl.

Claim 17. (Original) A compound according to claim 16 that is 3-ethyl-1-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)-1-pantanone.

Claims 18-22 have been cancelled.

Claim 23. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is -R₂₀L₃R₂₂;

R₂₀ is heterocycle;

L₃ is selected from the group consisting of a covalent bond and alkylene; and

R₂₂ is aryl.

Claim 24. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholinyl, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is -R₂₀L₃R₂₂;

R₂₀ is heterocycle;

L₃ is selected from the group consisting of a covalent bond and alkylene; and

R₂₂ is aryl.

Claim 25. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle (2R)-2-methyl-1-pyrrolidinyl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is -R₂₀L₃R₂₂;

R₂₀ is 1,2,4-oxadiazol-3-yl;

L₃ is selected from the group consisting of a covalent bond and alkylene; and

R₂₂ is phenyl substituted with 0, 1, 2, or 3 substituents selected from the group consisting of hydrogen, alkoxy, alkyl, alkoxy carbonyl, alkyl carbonyl, alkylthio, carboxy, cyano, formyl, haloalkoxy, haloalkyl, halogen, hydroxyalkyl, oximyl, (NR_AR_B)carbonyl, and -NR_AR_B.

Claim 26 has been cancelled.

Claim 27. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is -R₂₀L₃R₂₂;

R₂₀ is 1,2,4-oxadiazol-3-yl;

L₃ is selected from the group consisting of a covalent bond and alkylene; and

R₂₂ is heterocycle.

Claim 28. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholinyl, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is -R₂₀L₃R₂₂;

R₂₀ is 1,2,4-oxadiazol-3-yl;

L₃ is selected from the group consisting of a covalent bond and alkylene; and

R₂₂ is heterocycle.

Claim 29. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle (2R)-2-methyl-1-pyrrolidinyl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is -R₂₀L₃R₂₂;

R₂₀ is 1,2,4-oxadiazol-3-yl;

L₃ is selected from the group consisting of a covalent bond and alkylene; and

R₂₂ is 2-thienyl.

Claim 30. (Original) A compound according to claim 29 that is 3-(2-{(2R)-2-methylpyrrolidin-1-yl}ethyl)-1-benzofuran-5-yl)-5-(thien-2-ylmethyl)-1,2,4-oxadiazole.

Claim 31. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is -R₂₀L₃R₂₂;

R₂₀ is aryl;

L₃ is C(=O); and

R₂₂ is cycloalkyl.

Claim 32. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholinyl, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is -R₂₀L₃R₂₂;

R₂₀ is aryl;
L₃ is C(=O); and
R₂₂ is cycloalkyl.

Claim 33. (Original) A compound according to claim 1 wherein

A is a covalent bond;
D is O;
L is -CH₂CH₂-;
P and Q taken together form a covalent bond;
R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle (2R)-2-methyl-1-pyrrolidinyl;
R₃, R₄, R₅ and R₇ are hydrogen;
R₆ is -R₂₀L₃R₂₂;
R₂₀ is phenyl;
L₃ is C(=O); and
R₂₂ is cycloalkyl.

Claim 34. (Original) A compound according to claim 33 selected from the group consisting of cyclopropyl[3-(2-{2-[2-(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)phenyl]methanone; and cyclopropyl[4-(2-{2-[2-(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)phenyl]methanone.

Claim 35. (Original) A compound according to claim 1 wherein

A is a covalent bond;
D is O;
L is -CH₂CH₂-;
P and Q taken together form a covalent bond;
R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl;
R₃, R₄, R₅ and R₇ are hydrogen;
R₆ is -R₂₀L₃R₂₂;
R₂₀ is aryl;
L₃ is C(=O); and
R₂₂ is aryl.

Claim 36. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholiny, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is -R₂₀L₃R₂₂;

R₂₀ is aryl;

L₃ is C(=O); and

R₂₂ is aryl.

Claim 37. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle (2R)-2-methyl-1-pyrrolidinyl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is -R₂₀L₃R₂₂;

R₂₀ is phenyl;

L₃ is C(=O); and

R₂₂ is phenyl substituted with 0, 1, 2, or 3 substituents selected from the group consisting of hydrogen, alkoxy, alkyl, alkoxycarbonyl, alkylcarbonyl, alkylthio, carboxy, cyano, formyl, haloalkoxy, haloalkyl, halogen, hydroxyalkyl, oximyl, (NR_AR_B)carbonyl, and -NR_AR_B.

Claim 38. (Original) A compound according to claim 37 that is (3-fluorophenyl)[3-(2-{2-[2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)phenyl]methanone.

Claim 39. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is -R₂₀L₃R₂₂;

R₂₀ is aryl;

L₃ is C(=O); and

R₂₂ is heterocycle.

Claim 40. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-

pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholinyl, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is -R₂₀L₃R₂₂;

R₂₀ is aryl;

L₃ is C(=O); and

R₂₂ is heterocycle.

Claim 41. (Original) A compound according to claim 1 wherein

A is a covalent bond;

D is O;

L is -CH₂CH₂-;

P and Q taken together form a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle (2R)-2-methyl-1-pyrrolidinyl;

R₃, R₄, R₅ and R₇ are hydrogen;

R₆ is -R₂₀L₃R₂₂;

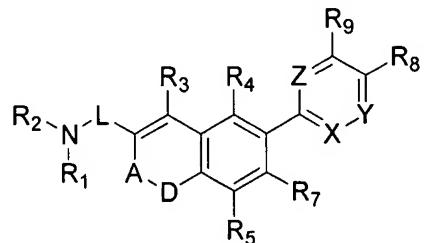
R₂₀ is phenyl;

L₃ is C(=O); and

R₂₂ is 2-thienyl.

Claim 42. (Original) A compound according to claim 41 that is [3-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl]phenyl](2-thienyl)methanone.

Claim 43. (Currently Amended) A compound according to claim 1 of formula (II)



(II),

or a pharmaceutical acceptable salt, ester, or amide, or prodrug thereof, wherein

R₇ is selected from the group consisting of hydrogen, alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen,

haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl;

R₈ is selected from the group consisting of hydrogen, alkylcarbonyl, arylcarbonyl, cyano, cycloalkylcarbonyl, heterocyclecarbonyl and (NR_AR_B)carbonyl;

R₉ is selected from the group consisting of hydrogen, alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl;

X is selected from the group consisting of CH; and CR_X;

Y is selected from the group consisting of CH; and CR_Y;

Z is selected from the group consisting of CH; and CR_Z; and

R_X, R_Y and R_Z are each independently selected from the group consisting of alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl.

Claim 44 has been cancelled.

Claim 45. (Previously Presented) A compound according to claim 43 wherein

A is a covalent bond;

R₁ and R₂ are each independently selected from the group consisting of alkyl, hydroxyalkyl, alkenyl and alkynyl; and

R₈ is cyano.

Claim 46. (Previously Presented) A compound according to claim 43 wherein

A is a covalent bond;

L is -CH₂CH₂-;

R₁ and R₂ are each independently selected from the group consisting of alkyl, hydroxyalkyl, alkenyl and alkynyl;

R₃, R₄, R₅, R₇ and R₉ are hydrogen;

R₈ is cyano;

X is CH;

Y is CH; and

Z is CH.

Claim 47. (Original) A compound according to claim 46 selected from the group consisting of:

4-{2-[2-(diethylamino)ethyl]-1-benzofuran-5-yl}benzonitrile;
4-(2-{2-[tert-butyl(methyl)amino]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[isopropyl(methyl)amino]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[isobutyl(methyl)amino]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[ethyl(isopropyl)amino]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[ethyl(propyl)amino]ethyl}-1-benzofuran-5-yl)benzonitrile; and
4-[2-(2-aminoethyl)-1-benzofuran-5-yl]benzonitrile.

Claim 48 has been cancelled.

Claim 49. (Previously Presented) A compound according to claim 43 wherein

A is a covalent bond;

R₁ and R₂ are each independently selected from the group consisting of alkyl, hydroxyalkyl, alkenyl and alkyanyl; and

R₈ is heterocyclecarbonyl.

Claim 50. (Previously Presented) A compound according to claim 43 wherein

A is a covalent bond;

R₁ and R₂ are each independently selected from the group consisting of alkyl, hydroxyalkyl, alkenyl and alkyanyl; and

R₈ is heterocyclecarbonyl wherein the heterocycle is selected from the group consisting of azetidinyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl.

Claim 51. (Previously Presented) A compound according to claim 43 wherein

A is a covalent bond;

R₁ and R₂ are each independently selected from the group consisting of alkyl, hydroxyalkyl, alkenyl and alkyanyl; and

R₈ is heterocyclecarbonyl wherein the heterocycle is selected from the group consisting of 1-azetidinyl, 4-morpholinyl, 1-piperazinyl, 1-piperidinyl, 3-pyridinyl, 1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, 1-pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, 4-thiomorpholinyl, and 1,1-dioxidothiomorpholin-4-yl.

Claim 52. (Previously Presented) A compound according to claim 43 wherein

A is a covalent bond;

R₁ and R₂ are each independently selected from the group consisting of alkyl, hydroxyalkyl, alkenyl and alkynyl; and

R₈ is heterocyclecarbonyl wherein the heterocycle of heterocarbonyl is 4-morpholinyl.

Claim 53. (Previously Presented) A compound according to claim 43 wherein

L is -CH₂CH₂-;

A is a covalent bond;

R₁ and R₂ are each independently selected from the group consisting of alkyl, hydroxyalkyl, alkenyl and alkynyl;

R₃, R₄, R₅, R₇ and R₉ are hydrogen;

R₈ is heterocyclecarbonyl wherein the heterocycle of heterocarbonyl is 4-morpholinyl;

X is CH;

Y is CH; and

Z is CH.

Claim 54. (Original) A compound according to claim 53 selected from the group consisting of:

N,N-diethyl-N-(2-{5-[4-(4-morpholinylcarbonyl)phenyl]-1-benzofuran-2-yl}ethyl)amine;

N-(tert-butyl)-N-methyl-N-(2-{5-[4-(4-morpholinylcarbonyl)phenyl]-1-benzofuran-2-yl}ethyl)amine;

N-isopropyl-N-methyl-N-(2-{5-[4-(4-morpholinylcarbonyl)phenyl]-1-benzofuran-2-yl}ethyl)amine;

N-isobutyl-N-methyl-N-(2-{5-[4-(4-morpholinylcarbonyl)phenyl]-1-benzofuran-2-yl}ethyl)amine;

N-ethyl-N-isopropyl-N-(2-{5-[4-(4-morpholinylcarbonyl)phenyl]-1-benzofuran-2-yl}ethyl)amine;

N,N-dimethyl-N-(2-{5-[4-(4-morpholinylcarbonyl)phenyl]-1-benzofuran-2-yl}ethyl)amine; and

N-ethyl-N-(2-{5-[4-(4-morpholinylcarbonyl)phenyl]-1-benzofuran-2-yl}ethyl)-N-propylamine.

Claims 55-60 have been cancelled.

Claim 61. (Original) A compound according to claim 43 wherein

A is a covalent bond; and

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle.

Claim 62. (Original) A compound according to claim 43 wherein

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl,

pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl; and

R₈ is cyano.

Claim 63. (Original) A compound according to claim 43 wherein

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholinyl, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl; and

R₈ is cyano.

Claim 64. (Original) A compound according to claim 43 wherein

L is alkyl;

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl;

R₃, R₄, R₅, and R₇ are independently selected from the group consisting of hydrogen, alkyl, alkylcarbonyl, and halogen;

R₈ and R₉ are independently selected from the group consisting of hydrogen, alkoxy, alkyl, alkoxy carbonyl, alkylcarbonyl, carboxy, cyano, formyl, halogen, haloalkyl, haloalkoxy, hydroxyalkyl, and oximyl;

X is selected from the group consisting of CH and CR_X;

Y is selected from the group consisting of CH and CR_Y;

Z is selected from the group consisting of CH and CR_Z; and

R_X, R_Y, and R_Z are independently selected from the group consisting of alkoxy, alkyl, alkoxy carbonyl, alkylcarbonyl, carboxy, cyano, formyl, halogen, haloalkyl, haloalkoxy, hydroxyalkyl, and oximyl.

Claim 65. (Original) A compound according to claim 43 wherein

L is alkyl;

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholinyl, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl;

R₃, R₄, R₅, and R₇ are independently selected from the group consisting of hydrogen, alkyl, alkylcarbonyl, and halogen;

R₈ and R₉ are independently selected from the group consisting of hydrogen, alkoxy, alkyl, alkoxycarbonyl, alkylcarbonyl, carboxy, cyano, formyl, halogen, haloalkyl, haloalkoxy, hydroxyalkyl, and oximyl;

X is selected from the group consisting of CH and CR_X;

Y is selected from the group consisting of CH and CR_Y;

Z is selected from the group consisting of CH and CR_Z; and

R_X, R_Y, and R_Z are independently selected from the group consisting of alkoxy, alkyl, alkoxycarbonyl, alkylcarbonyl, carboxy, cyano, formyl, halogen, haloalkyl, haloalkoxy, hydroxyalkyl, and oximyl.

Claim 66. (Original) A compound according to claim 65 selected from the group consisting of:

- 4-{2-[2-(1-pyrrolidinyl)ethyl]-1-benzofuran-5-yl}benzonitrile;
- 4-{2-[2-(1-piperidinyl)ethyl]-1-benzofuran-5-yl}benzonitrile;
- 4-{2-[2-(2-methyl-1-piperidinyl)ethyl]-1-benzofuran-5-yl}benzonitrile;
- 4-(2-{2-[(3R)-3-hydroxypyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
- 4-{2-[2-(1H-imidazol-1-yl)ethyl]-1-benzofuran-5-yl}benzonitrile;
- 4-(2-{2-[(3S)-3-(dimethylamino)pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
- 4-(2-{2-[(2S)-2-(hydroxymethyl)pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
- 4-(2-{2-[(cis)-2,6-dimethylpiperidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
- 4-{2-[2-(1-azepanyl)ethyl]-1-benzofuran-5-yl}benzonitrile;
- 4-{2-[2-(4-methyl-1-piperidinyl)ethyl]-1-benzofuran-5-yl}benzonitrile;
- 4-(2-{2-[2-pyrrolidine methyl carboxylate]ethyl}-1-benzofuran-5-yl)benzonitrile;

4-{2-[2-(3,6-dihydro-1(2H)-pyridinyl)ethyl]-1-benzofuran-5-yl}benzonitrile;
4-(2-{2-[(2R)-2-(hydroxymethyl)pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[(3R)-(dimethylamino)pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[(2S)-2-methylpyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[(2-methylpyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(3-bromo-2-{2-[(2R)-2-methylpyrrolidin-1-yl]ethyl}-1-benzofuran-5-yl)benzonitrile;
2-methyl-4-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
3-methyl-4-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(6-methyl-2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(4-methyl-2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(7-methyl-2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(7-fluoro-2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
2-fluoro-4-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
3-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
(2R)-1-{2-[5-(4-fluorophenyl)-1-benzofuran-2-yl]ethyl}-2-methylpyrrolidine;
(2R)-1-{2-[5-(3,4-dichlorophenyl)-1-benzofuran-2-yl]ethyl}-2-methylpyrrolidine;
(2R)-2-methyl-1-{2-[5-(2-methylphenyl)-1-benzofuran-2-yl]ethyl}pyrrolidine;
(2R)-2-methyl-1-{2-[5-(3-methylphenyl)-1-benzofuran-2-yl]ethyl}pyrrolidine;
(2R)-2-methyl-1-{2-[5-(4-methylphenyl)-1-benzofuran-2-yl]ethyl}pyrrolidine;
4-{2-[2-(2-methylpyrrolidin-1-yl)-ethyl]-benzofuran-5-yl}-benzoic acid methyl ester;
(2R)-1-{2-[5-(2-methoxyphenyl)-1-benzofuran-2-yl]ethyl}-2-methylpyrrolidine;
(2R)-1-{2-[5-(3-methoxyphenyl)-1-benzofuran-2-yl]ethyl}-2-methylpyrrolidine;
(2R)-1-{2-[5-(4-methoxyphenyl)-1-benzofuran-2-yl]ethyl}-2-methylpyrrolidine;
(2R)-1-{2-[5-(3-fluorophenyl)-1-benzofuran-2-yl]ethyl}-2-methylpyrrolidine;
(2R)-1-{2-[5-(2-chlorophenyl)-1-benzofuran-2-yl]ethyl}-2-methylpyrrolidine;
(2R)-1-{2-[5-(3-chlorophenyl)-1-benzofuran-2-yl]ethyl}-2-methylpyrrolidine;
1-{2-[5-(4-chlorophenyl)-benzofuran-2-yl]-ethyl}-2-methylpyrrolidine;
(2R)-2-methyl-1-(2-{5-[3-(trifluoromethyl)phenyl]-1-benzofuran-2-yl}ethyl)pyrrolidine;
(2R)-2-methyl-1-(2-{5-[4-(trifluoromethyl)phenyl]-1-benzofuran-2-yl}ethyl)pyrrolidine;
(2R)-2-methyl-1-(2-{5-[3-(trifluoromethoxy)phenyl]-1-benzofuran-2-yl}ethyl)pyrrolidine;
(2R)-2-methyl-1-(2-{5-[4-(trifluoromethoxy)phenyl]-1-benzofuran-2-yl}ethyl)pyrrolidine;
(2R)-1-{2-[5-(3,4-dimethylphenyl)-1-benzofuran-2-yl]ethyl}-2-methylpyrrolidine;
(2R)-1-{2-[5-(3,5-dichlorophenyl)-1-benzofuran-2-yl]ethyl}-2-methylpyrrolidine;
(2R)-1-{2-[5-(3,5-dimethylphenyl)-1-benzofuran-2-yl]ethyl}-2-methylpyrrolidine;
[4-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)phenyl]methanol;

1-[3-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)phenyl]ethanone;
1-[3-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)phenyl]ethanol;
2-[3-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)phenyl]-2-propanol;
1-[3-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)phenyl]ethanone oxime;
1-[3-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)phenyl]ethanone O-methyloxime;
1-[3-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)phenyl]ethanone O-ethyloxime;
1-[3-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)phenyl]ethanone O-(tert-butyl)oxime;
ethyl 3-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzoate;
3-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzoic acid;
N-methoxy-N-methyl-3-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzamide;
1-[3-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)phenyl]-1-propanone;
3-methyl-1-[3-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)phenyl]-1-butanone;
3-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzaldehyde;
[3-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)phenyl]methanol;
4-(3-bromo-2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)-2-methylbenzonitrile;
4-(3-chloro-2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(3,6-dichloro-2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(3-iodo-2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[(2R)-2-methyl-5-oxo-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(3-acetyl-2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[(2R)-2-ethyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[(2S)-2-(fluoromethyl)-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzothien-5-yl)benzonitrile;
3-(2-{3-[(2R)-2-methyl-1-pyrrolidinyl]propyl}-1-benzofuran-5-yl)benzonitrile;
3-(2-{[(2R)-2-methyl-1-pyrrolidinyl]methyl}-1-benzofuran-5-yl)benzonitrile; and
3-(2-{4-[(2R)-2-methyl-1-pyrrolidinyl]butyl}-1-benzofuran-5-yl)benzonitrile;

Claim 67. (Original) A compound according to claim 43 wherein

A is a covalent bond;

L is -CH₂CH₂-;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle substituted with 0, 1 or 2 substituents selected from alkyl;

R₃, R₄, R₅, R₇, and R₉ are hydrogen;

R₈ is cyano;

X is CH;

Y is CH; and

Z is CH.

Claim 68. (Original) A compound according to claim 67 selected from the group consisting of

4-(2-{2-[(2S)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[(2S)-2-ethyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[(2R)-2-ethyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[2-ethyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[(2R,5R)-2,5-dimethylpyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[(2S,5S)-2,5-dimethylpyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[(trans)-2,5-dimethylpyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile; and
3-(2-{2-[(2S)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile.

Claim 69. (Original) A compound according to claim 67 that is 4-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile.

Claim 70. (Original) A compound according to claim 43 wherein

L is -CH₂CH₂-;

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl;

R₃ is heterocycle;

R₄, R₅, R₇ and R₉ are hydrogen;

R₈ is cyano;

X is CH;

Y is CH; and

Z is CH.

Claim 71. (Original) A compound according to claim 43 wherein

L is -CH₂CH₂-;

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholiny, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl;

R₃ is heterocycle;

R₄, R₅, R₇ and R₉ are hydrogen;

R₈ is cyano;

X is CH;

Y is CH; and

Z is CH.

Claim 72. (Original) A compound according to claim 43 wherein

L is -CH₂CH₂-;

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle (2R)-2-methyl-1-pyrrolidinyl;

R₃ is a heterocycle selected from the group consisting of 2-furyl, 3-pyridinyl, and 2-thienyl wherein the heterocycle is substituted with 0, 1, or 2 substituents selected from the group consisting of hydrogen, alkoxy, alkyl, alkoxycarbonyl, alkylcarbonyl, carboxy, cyano, formyl, halogen, haloalkyl, haloalkoxy, hydroxyalkyl, and oximyl;

R₄, R₅, R₇ and R₉ are hydrogen;

R₈ is cyano;

X is CH;

Y is CH; and

Z is CH.

Claim 73. (Original) A compound according to claim 72 selected from the group consisting of

4-(3-(2-furyl)-2-{2-[(2R)-2-methylpyrrolidin-1-yl]ethyl}-1-benzofuran-5-yl)benzonitrile;

4-[2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-3-(3-pyridinyl)-1-benzofuran-5-yl]benzonitrile;

4-[2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-3-(3-thienyl)-1-benzofuran-5-yl]benzonitrile; and

4-(3-(2-formyl-3-thienyl)-2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile.

Claims 74-76 have been cancelled.

Claim 77. (Original) A compound according to claim 43 wherein

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle; and

R₈ is heterocyclecarbonyl.

Claim 78. (Original) A compound according to claim 43 wherein

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl; and

R₈ is heterocyclecarbonyl wherein the heterocycle of heterocyclecarbonyl is selected from the group consisting of azetidinyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl.

Claim 79. (Original) A compound according to claim 43 wherein

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl; and

R₈ is heterocyclecarbonyl wherein the heterocycle of heterocyclecarbonyl is selected from the group consisting of 1-azetidinyl, 4-morpholinyl, 1-piperazinyl, 1-piperidinyl, 3-pyridinyl, 1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, 1-pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, 4-thiomorpholinyl, and 1,1-dioxidothiomorpholin-4-yl.

Claim 80. (Original) A compound according to claim 43 wherein

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl,

(2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholiny, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl; and

R₈ is heterocyclecarbonyl wherein the heterocycle of heterocyclecarbonyl is selected from the group consisting of azetidinyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl.

Claim 81. (Original) A compound according to claim 43 wherein

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholiny, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl; and

R₈ is heterocyclecarbonyl wherein the heterocycle of heterocyclecarbonyl is selected from the group consisting of 1-azetidinyl, 4-morpholinyl, 1-piperazinyl, 1-piperidinyl, 3-pyridinyl, 1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, 1-pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, 4-thiomorpholinyl, and 1,1-dioxidothiomorpholin-4-yl.

Claim 82. (Original) A compound according to claim 43 wherein

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl; and

R₈ is heterocyclecarbonyl wherein the heterocycle of heterocyclecarbonyl is 4-morpholinyl.

Claim 83. (Original) A compound according to claim 43 wherein

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholinyl, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl; and

R₈ is heterocyclecarbonyl wherein the heterocycle of heterocyclecarbonyl is 4-morpholinyl.

Claim 84. (Original) A compound according to claim 43 wherein

L is -CH₂CH₂-;

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl;

R₃, R₄, R₅, R₇ and R₉ are hydrogen;

R₈ is heterocyclecarbonyl wherein the heterocycle of heterocyclecarbonyl is 4-morpholinyl;

X is CH;

Y is CH; and

Z is CH.

Claim 85. (Original) A compound according to claim 43 wherein

L is -CH₂CH₂-;

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-

dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholiny, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl;

R₃, R₄, R₅, R₇ and R₉ are hydrogen;

R₈ is heterocyclecarbonyl wherein the heterocycle of heterocyclecarbonyl is 4-morpholiny;

X is CH;

Y is CH; and

Z is CH.

Claim 86. (Original) A compound according to claim 85 selected from the group consisting of:

4-(4-{2-[2-(2-methyl-1-pyrrolidinyl)ethyl]-1-benzofuran-5-yl}benzoyl)morpholine;

4-(4-{2-[2-(1-piperidinyl)ethyl]-1-benzofuran-5-yl}benzoyl)morpholine;

4-(4-{2-[2-(2-methyl-1-piperidinyl)ethyl]-1-benzofuran-5-yl}benzoyl)morpholine;

(3R)-1-(2-{5-[4-(4-morpholinylcarbonyl)phenyl]-1-benzofuran-2-yl}ethyl)-3-pyrrolidinol;

4-[4-(2-{2-[(2R,5R)-2,5-dimethylpyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzoyl]morpholine;

4-[4-(2-{2-[(cis)-2,6-dimethylpiperidinyl]ethyl}-1-benzofuran-5-yl)benzoyl]morpholine;

4-(4-{2-[2-(azepinyl)ethyl]-1-benzofuran-5-yl}benzoyl)morpholine;

4-(4-{2-[2-(4-methyl-1-piperidinyl)ethyl]-1-benzofuran-5-yl}benzoyl)morpholine;

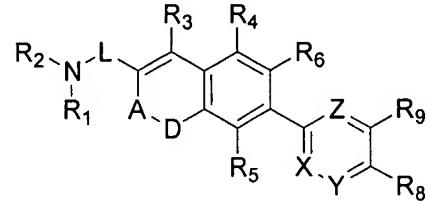
4-(4-{2-[2-(4-morpholine)ethyl]-1-benzofuran-5-yl}benzoyl)morpholine;

4-(4-{2-[2-(3,6-dihydro-1(2H)-pyridinyl)ethyl]-1-benzofuran-5-yl}benzoyl)morpholine; and

4-(4-{2-[2-(2S)-pyrrolidinylmethanol]ethyl}-1-benzofuran-5-yl)benzoyl)morpholine.

Claims 87-102 have been cancelled.

103. (Currently Amended) A compound according to claim 1 of formula (III)



(III),

or a pharmaceutical acceptable salt, ester, or amide, or prodrug thereof, wherein

R₆ is selected from the group consisting of hydrogen, alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl;

R₈ is selected from the group consisting of hydrogen, alkylcarbonyl, arylcarbonyl, cyano, cycloalkylcarbonyl, heterocyclecarbonyl and (NR_AR_B)carbonyl;

R₉ is selected from the group consisting of hydrogen, alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl;

X is selected from the group consisting of CH₃ and CR_X;

Y is selected from the group consisting of CH₃ and CR_Y;

Z is selected from the group consisting of CH₃ and CR_Z; and

R_X, R_Y and R_Z are each independently selected from the group consisting of alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl.

Claim 104 has been cancelled.

Claim 105. (Original) A compound according to claim 103 wherein

A is a covalent bond;

R₁ and R₂ are each independently selected from the group consisting of hydrogen, alkyl, hydroxyalkyl, alkenyl and alkynyl; and

R₈ is selected from the group consisting of cyano and heterocyclecarbonyl.

Claim 106. (Previously Presented) A compound according to claim 103 wherein

A is a covalent bond;

R₁ and R₂ are each independently selected from the group consisting of alkyl, hydroxyalkyl, alkenyl and alkynyl; and

R₈ is selected from the group consisting of cyano and heterocyclecarbonyl wherein the heterocycle of heterocyclecarbonyl is selected from the group consisting of azetidinyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, 1-pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl.

Claim 107. (Previously Presented) A compound according to claim 103 wherein

A is a covalent bond;

R₁ and R₂ are each independently selected from the group consisting of alkyl, hydroxyalkyl, alkenyl and alkynyl; and

R₈ is selected from the group consisting of cyano and heterocyclecarbonyl wherein the heterocycle of heterocyclecarbonyl is selected from the group consisting of 1-azetidinyl, 4-morpholinyl, 1-piperazinyl, 1-piperidinyl, 3-pyridinyl, 1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, 1-pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, 4-thiomorpholinyl, and 1,1-dioxidothiomorpholin-4-yl.

Claim 108. (Original) A compound according to claim 103 wherein

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle; and

R₈ is selected from the group consisting of cyano and heterocyclecarbonyl.

Claim 109. (Original) A compound according to claim 103 wherein

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl; and

R₈ is selected from the group consisting of cyano and heterocyclecarbonyl wherein the heterocycle of heterocyclecarbonyl is selected from the group consisting of 1-azetidinyl, 4-morpholinyl, 1-piperazinyl, 1-piperidinyl, 3-pyridinyl, 1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, 1-pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, 4-thiomorpholinyl, and 1,1-dioxidothiomorpholin-4-yl.

Claim 110. (Original) A compound according to claim 103 wherein

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl,

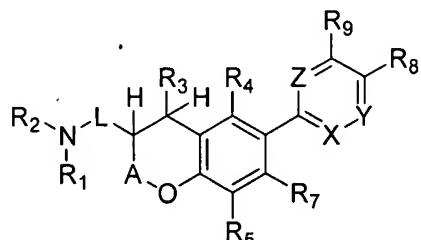
(2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholinyl, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl; and

R₈ is selected from the group consisting of cyano and heterocyclecarbonyl wherein the heterocycle of heterocyclecarbonyl is selected from the group consisting of 1-azetidinyl, 4-morpholinyl, 1-piperazinyl, 1-piperidinyl, 3-pyridinyl, 1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, 1-pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, 4-thiomorpholinyl, and 1,1-dioxidothiomorpholin-4-yl.

Claim 111. (Original) A compound according to claim 110 that is 4-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-6-yl)benzonitrile.

Claims 112-126 have been cancelled.

Claim 127. (Currently Amended) A compound according to claim 1 of formula (IV)



(IV),

or a pharmaceutical acceptable salt, ester, or amide, ~~or prodrug~~ thereof, wherein

R₇ is selected from the group consisting of hydrogen, alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl;

R₈ is selected from the group consisting of hydrogen, alkylcarbonyl, arylcarbonyl, cyano, cycloalkylcarbonyl, heterocyclecarbonyl and (NR_AR_B)carbonyl;

R₉ is selected from the group consisting of hydrogen, alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl;

X is selected from the group consisting of CH₂ and CR_X;

Y is selected from the group consisting of CH₂ and CR_Y;

Z is selected from the group consisting of CH₂ and CR_Z; and

R_X, R_Y and R_Z are each independently selected from the group consisting of alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl.

Claim 128 has been cancelled.

Claim 129.. (Previously Presented) A compound according to claim 127 wherein

A is a covalent bond;

R₁ and R₂ are each independently selected from the group consisting of alkyl, hydroxyalkyl, alkenyl and alkynyl; and

R₈ is cyano.

Claim 130. (Previously Presented) A compound according to claim 127 wherein

L is -CH₂CH₂-;

A is a covalent bond;

R₁ and R₂ are each independently selected from the group consisting of alkyl, hydroxyalkyl, alkenyl and alkynyl;

R₃, R₄, R₅, R₇ and R₉ are hydrogen;

R₈ is cyano;

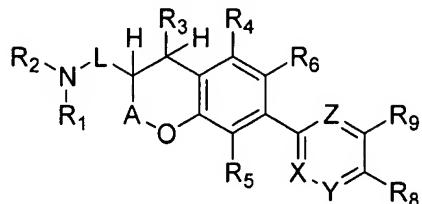
X is CH;

Y is CH; and

Z is CH.

Claim 131. (Original) A compound according to claim 130 that is 4-(2-{2-[(2R)-2-methylpyrrolidinyl]ethyl}-2,3-dihydro-1-benzofuran-5-yl)benzonitrile.

Claim 132. (Currently Amended) A compound according to claim 1 of formula (V)



(V),

or a pharmaceutical acceptable salt, ester, or amide, ~~or prodrug~~ thereof, wherein

R₆ is selected from the group consisting of hydrogen, alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl;

R₈ is selected from the group consisting of hydrogen, alkylcarbonyl, arylcarbonyl, cyano, cycloalkylcarbonyl, heterocyclecarbonyl and (NR_AR_B)carbonyl;

R₉ is selected from the group consisting of hydrogen, alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl;

X is selected from the group consisting of CH₃ and CR_X;

Y is selected from the group consisting of CH₃ and CR_Y;

Z is selected from the group consisting of CH₃ and CR_Z; and

R_X, R_Y and R_Z are each independently selected from the group consisting of alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl.

Claim 133 has been cancelled.

Claim 134. (Previously Presented) A compound according to claim 132 wherein

A is a covalent bond;

R₁ and R₂ are each independently selected from the group consisting of alkyl, hydroxyalkyl, alkenyl and alkynyl; and

R₈ is cyano.

Claim 135. (Previously Presented) A compound according to claim 132 wherein

L is -CH₂CH₂-;

A is a covalent bond;

R₁ and R₂ are each independently selected from the group consisting of alkyl, hydroxyalkyl, alkenyl and alkynyl;

R₃, R₄, R₅, R₆ and R₉ are hydrogen;

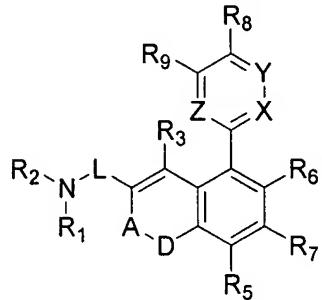
R₈ is cyano;

X is CH;

Y is CH; and

Z is CH.

Claim 136. (Currently Amended) A compound according to claim 1 of formula (VI)



(VI),

or a pharmaceutical acceptable salt, ester, or amide, or prodrug thereof, wherein

R₅, R₆, and R₇ are independently selected from the group consisting of hydrogen, alkoxy, alcoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl;

R₈ is selected from the group consisting of hydrogen, alkylcarbonyl, arylcarbonyl, cyano, cycloalkylcarbonyl, heterocyclecarbonyl and (NR_AR_B)carbonyl;

R₉ is selected from the group consisting of hydrogen, alkoxy, alcoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl;

X is selected from the group consisting of CH, and CR_X;

Y is selected from the group consisting of CH, and CR_Y;

Z is selected from the group consisting of CH, and CR_Z; and

R_X, R_Y and R_Z are each independently selected from the group consisting of alkoxy, alcoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl,

formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl.

Claim 137 has been cancelled.

Claim 138. (Original) A compound according to claim 136 wherein

A is a covalent bond; and

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle.

Claim 139. (Original) A compound according to claim 136 wherein

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl; and

R₈ is cyano.

Claim 140. (Original) A compound according to claim 136 wherein

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholinyl, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl; and

R₈ is cyano.

Claim 141. (Original) A compound according to claim 136 wherein

L is -CH₂CH₂-;

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl;

R₃, R₅, R₆, R₇ and R₉ are hydrogen;

R₈ is cyano;

X is CH;

Y is CH; and

Z is CH.

Claim 142. (Original) A compound according to claim 136 wherein

L is -CH₂CH₂-;

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholinyl, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl;

R₃, R₅, R₆, R₇ and R₉ are hydrogen;

R₈ is cyano;

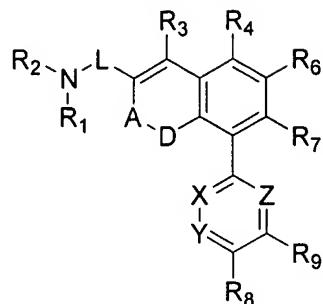
X is CH;

Y is CH; and

Z is CH.

Claim 143. (Original) A compound according to claim 142 that is 4-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-4-yl)benzonitrile.

Claim 144. (Currently Amended) A compound according to claim 1 of formula (VII)



(VII),

or a pharmaceutical acceptable salt, ester, or amide, or prodrug thereof, wherein

R₄, R₆, and R₇ are independently selected from the group consisting of hydrogen, alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl;

R₈ is selected from the group consisting of hydrogen, alkylcarbonyl, arylcarbonyl, cyano, cycloalkylcarbonyl, heterocyclecarbonyl and (NR_AR_B)carbonyl;

R₉ is selected from the group consisting of hydrogen, alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl;

X is selected from the group consisting of CH; and CR_X;

Y is selected from the group consisting of CH; and CR_Y;

Z is selected from the group consisting of CH; and CR_Z; and

R_X, R_Y and R_Z are each independently selected from the group consisting of alkoxy, alkoxycarbonyl, alkyl, alkylcarbonyl, alkylcarbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, carboxy, carboxyalkyl, cyano, cyanoalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl and (NR_AR_B)sulfonyl.

Claim 145 has been cancelled.

Claim 146. (Original) A compound according to claim 144 wherein

A is a covalent bond; and

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle.

Claim 147. (Original) A compound according to claim 144 wherein

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl; and

R₈ is cyano.

Claim 148. (Original) A compound according to claim 144 wherein

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholinyl, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl; and

R₈ is cyano.

Claim 149. (Original) A compound according to claim 144 wherein

L is -CH₂CH₂-;

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of azepanyl, azetidinyl, imadazolyl, morpholinyl, piperazinyl, piperidinyl, pyridinyl, pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, 2,5-dihydro-1H-pyrrolyl, pyrrolyl, 3,6-dihydro-1(2H)-pyridinyl, thiomorpholinyl, and 1,1-dioxidothiomorpholinyl;

R₃, R₄, R₆, R₇ and R₉ are hydrogen;

R₈ is cyano;

X is CH;

Y is CH; and

Z is CH.

Claim 150. (Original) A compound according to claim 144 wherein

L is -CH₂CH₂-;

A is a covalent bond;

R₁ and R₂ taken together with the nitrogen atom to which they are attached, together form a heterocycle selected from the group consisting of 1-azepanyl, (3S)-3-(dimethylamino)pyrrolidinyl, (3R)-3-(dimethylamino)pyrrolidinyl, 1H-imidazol-1-yl, (3R)-3-hydroxy-1-pyrrolidinyl, (3S)-3-hydroxy-1-pyrrolidinyl, (2S)-2-(hydroxymethyl)pyrrolidinyl, (2R)-2-(hydroxymethyl)pyrrolidinyl, (cis)-2,6-dimethylpiperidinyl, 4-methyl-1-piperidinyl, 2-methyl-1-piperidinyl, 1-piperidinyl, (2R,5R)-2,5-dimethylpyrrolidinyl, (cis)-2,5-dimethylpyrrolidinyl, 1-pyrrolidinyl, 2-methyl-1-pyrrolidinyl, (2R)-2-methyl-1-pyrrolidinyl, (2S)-2-methyl-1-pyrrolidinyl, (2R)-2-methyl-5-oxo-1-pyrrolidinyl, (2S)-2-methyl-5-oxo-1-pyrrolidinyl, 3,6-dihydro-1(2H)-pyridinyl, (2S)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2R)-2-(methoxycarbonyl)-1-pyrrolidinyl, (2S)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-(fluoromethyl)-1-pyrrolidinyl, (2R)-2-ethyl-1-pyrrolidinyl, 2,2-dimethyl-1-pyrrolidinyl, (2S)-2-ethyl-1-pyrrolidinyl 4-morpholinyl, 2-oxa-5-azabicyclo[2.2.1]hept-5-yl, and 1,4-dioxa-8-azaspiro[4.5]dec-8-yl;

R₃, R₄, R₆, R₇ and R₉ are hydrogen;

R₈ is cyano;

X is CH;

Y is CH; and

Z is CH.

Claim 151. (Previously Presented) A compound according to claim 1 wherein

one substituent of R₄, R₅, R₆ and R₇ is selected from the group consisting of hydrogen, alkoxy, alkoxy carbonyl, alkyl, alkyl carbonyl, alkyl carbonyloxy, alkylsulfinyl, alkylsulfonyl, alkylthio, aryl, carboxy, carboxyalkyl, cyano, cyanoalkyl, cycloalkyl, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NR_AR_B, (NR_AR_B)alkyl, (NR_AR_B)carbonyl, (NR_AR_B)sulfonyl, -L₂R₂₀, and -R₂₀L₃R₂₂; and the other substituents of R₄, R₅, R₆ and R₇ are each independently selected from the group consisting of hydrogen and alkyl.

Claim 152. (Previously Presented) A compound according to claim 151 wherein

R₄, R₅, R₆ and R₇ are each independently selected from the group consisting of hydrogen, alkyl, -L₂R₂₀, and -R₂₀L₃R₂₂.

Claim 153. (Previously Presented) A compound according to claim 151 selected from the group consisting of

1-[2-(4-cyclohept-1-enyl-benzofuran-2-yl)-ethyl]-2(R)-methyl-pyrrolidine;

5-{2-[2-(2(R)-methyl-pyrrolidin-1-yl)-ethyl]-benzofuran-6-yl}-2-phenyl-oxazole;

4-{2-[2-(2(R)-methyl-pyrrolidin-1-yl)-ethyl]-benzofuran-6-yl}-1-phenyl-1H-pyrazole;

1-[2-(6-cyclohept-1-enyl-benzofuran-2-yl)-ethyl]-2(R)-methyl-pyrrolidine;

5-{2-[2-(2(R)-methyl-pyrrolidin-1-yl)-ethyl]-benzofuran-7-yl}-2-phenyl-oxazole;
4-{2-[2-(2(R)-methyl-pyrrolidin-1-yl)-ethyl]-benzofuran-7-yl}-1-phenyl-1H-pyrazole; and
1-[2-(7-cyclohept-1-enyl-benzofuran-2-yl)-ethyl]-2(R)-methyl-pyrrolidine.

Claim 154. (Previously Presented) A compound according to claim 1 selected from the group consisting of
(3-fluorophenyl)[3-(2-{2-[(2R)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)phenyl]methanone;
(2R)-2-methyl-1-[2-(5-phenoxy-1-benzofuran-2-yl)ethyl]pyrrolidine;
(2R)-1-(2-{5-[(3-fluorophenyl)thio]-1-benzofuran-2-yl}ethyl)-2-methylpyrrolidine;
4-(4-{2-[2-(2S)-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzoylmorpholine;
4-{[6-(2-{2-[(2S)-methylpyrrolidinyl]ethyl}-1-benzofuran-5-yl)-3-pyridinyl]carbonyl}morpholine;
4-(2-{2-[(2R)-2-methylpyrrolidinyl]ethyl}-2,3-dihydro-1-benzofuran-5-yl)benzonitrile;
4-(2-{2-[(2S)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-4-yl)benzonitrile;
4-{2-[2-(2(S)-methyl-pyrrolidin-1-yl)-ethyl]-benzofuran-6-yl}-benzonitrile;
3-(2-{2-[(2S)-2-methyl-1-pyrrolidinyl]ethyl}-1-benzofuran-5-yl)benzonitrile;
(4-methoxy-phenyl)-methyl-{2-[2-(2(R)-methyl-pyrrolidin-1-yl)-ethyl]-benzofuran-5-yl}-amine;
benzo[1,3]dioxol-5-yl-methyl-{2-[2-(2-methyl-pyrrolidin-1-yl)-ethyl]-benzofuran-5-yl}-amine;
cyclohexyl-methyl-{2-[2-(2(R)-methyl-pyrrolidin-1-yl)-ethyl]-benzofuran-5-yl}-amine; and
{2-[2-(2(R)-methyl-pyrrolidin-1-yl)-ethyl]-benzofuran-5-yl}-(tetrahydro-pyran-4-yl)-amine.

Claim 155. (Original) A pharmaceutical composition comprising a therapeutically effective amount of a compound of claim 1 in combination with a pharmaceutically acceptable carrier.

Claim 156 has been cancelled.

Claim 157. (Currently Amended) A method of treating a disorder selected from the group consisting of ~~acute myocardial infarction~~, asthma, bipolar disorder, cognitive enhancement, cognitive deficits in psychiatric disorders, cutaneous carcinoma, drug abuse, depression, gastrointestinal disorders, inflammation, jet lag, medullary thyroid carcinoma, melanoma, allergic rhinitis, Meniere's disease, migraine, mood and attention alteration, motion sickness, neurogenic inflammation, obsessive compulsive disorder, pain, Parkinson's disease, schizophrenia, seizures, septic shock, Tourette's syndrome, vertigo, and wakefulness, comprising administering an effective amount of a compound of claim 1.

Claim 158 has been cancelled.

Claim 159. (Original) The method according to claim 157 wherein the disorder is Alzheimer's disease.

Claim 160. (Original) The method according to claim 157 wherein the disorder is attention-deficit hyperactivity disorder.

Claim 161. (Original) The method according to claim 157 wherein the disorder is epilepsy.

Claim 162. (Original) The method according to claim 157 wherein the disorder is narcolepsy.

Claim 163. (Original) The method according to claim 157 wherein the disorder is obesity.

Claim 164. (Original) The method of claim 157 wherein the disorder is selected from the group consisting of mild cognitive impairment, deficits of memory, deficits of learning and dementia.